Original/Duplicate/Triplicate

Bill Type: Third and Part Bill **CONTRACT CERTIFICATE** SBRNO= 01/16-17 24/10/2016

(For other works)

Division: **BBMP,Byatarayanapura** Sub Division: **BBMP,Byatarayanapura**

Bill received No..... 538 27/10/16 Divisional

Sub Divisional

Cash Book Voucher No. ..... Dated.....

Work code: **005-16-000037**

Schedule Docket No. Head of account 3/10 Est.Cost:**10.3495 Crores** D.R No. :

Name of work(as per sanctioned estimate): **Providing internal lining works and development of approach roads to Bellahalli quarry sy. 13 yelahanka ward no.05**

Name of Contractor and Address: *Executive Engineer-4, KRIDL, Bangalore.-03*

Reference to Agreement No. **BBMP/EE/BTP/WO/324/2015-16** Date: **24.03.2016**

Certify that the measurements were taken by me on 24/10/16 and recorded of pages 263828 to 265841 of measurement book no. 2639

And that the work is satisfactorily executed.

Contractor

Office-in-charge of work

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

I certified that measurement were taken by me on 24/10/16 and found correct. That work is satisfactorily executed.

I certified that the quantities of material shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal Agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

Sub Division Officer

Assistant Executive Engineer
Byatarayanapura Sub Division

24/10/16

1) Total value of work done or supplies made as per account within	6,13,17,431-00	
2) Deduct amount to be held in reserve being.....percent Rs.....	1,17,53,629-00	
3) " " Balance Total Rs.	4,95,63,802-	ω
4) Deduct Payment:		
a) Amount previous payment as in the Office cash Book Voucher No.....Dated..... S.D No..... Amount adjusted towards cash advance recovery of ST-	991276-	ω
b) Payments Now Made Cost store or other material supplied. recovery of amount creditable to this/other work CC-	495638-	ω
Amount paid on this bill Cheque/Cash CBF-	49564-	ω
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the office cash book voucher No..... Dated..... Less adjustment.	15,36,478-	ω
7) Net amount due to or from contractor unadjustment items		
8) Advance to Contractor for materials brought to site(as detailed) within		
9) Value of Government materials supplied.	4,80,27,324-	ω

Contractor's Signature

Received Rs.....(in words)..... by cash and by adjustment of Payment as per memorandum

(In final settlement of all demands)

(For use in office)

Witness

1. Reserved for want of fund Rs: 1,13,17,429- ω
2.

(STAMP)

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Dated Signature of Contractor

Paid by me cheque no..... Dated.....

Cash Rs..... Dated.....

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Initials of Officer making payment

Audited & Admitted for Rs 4956380-

4,80,27324=00 By Cheque

and Rs 153647800 By Adjustment

Executive Engineer

Accts. Supdt. Sub Engineer

Byatarayanapura Dn. Byatarayanapura Dn.

BBMP BBMP.

28/X

Sl N	Description	Unit
1	2	3
1	KSRB 2.2.7: Benching hard rock 5 to 7.5 cm depth. for seating of foundation, including cost of all labour complete as per specifications. specification. No. KBS 2.1(a) / 2.3.1 complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Sqm
2	Providing, Supplying, Laying of 1.5 mm thick black HDPE texured Geomembrane including fabrication charges, all taxes and transportation etc.complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Sqm
3	Supply and laying of 200 gsm Non-woven Geotextile (Polypropylene) of thickness 2 mm at 2 kPa at the bottom and sides of landfill. The geotextile shall be made from virgin PP stable fibres and bonded by needlepunching technology inclusive of all taxes. complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Sqm
4	Engaging hydraulic excavator Hitachi on Hire basis including cost of fuel, crew charges etc Complete for Re-handling, heaping, spreading & forming of the MSW received at Dump yard & landfill site. 1 No of Hitachi per day of 8 hrs. complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Hrs
5	Engaging of JCB on Hire basis including cost of fuel, crew charges etc Complete for Re-handling, heaping, spreading & forming of the MSW received at Dump yard & landfill site. PWD SR 2015-16 page XXXVII item 23. For formation of road for movement of garbage carrying vehicles on to land fill, to assist the transporting vehicles that would struck in slush and any such unwaranted situations. Complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Day
6	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305. Complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work. Specification directions of engineer incharge.	Cum
7	Engaging Field Assistants for supervision of maintenance work of MSW handling as per the directions of Engineer in charge, For supervision and monitoring of the garbage disposal in the land fill, listing of vehicles, cleaning of spilled garbage etc. Complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Nos
Road Work		
8	KSRRB M300-14. Excavation for road work in all type of soil with hydraulic excavator of 0.9cum bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines,grades and cross sections and transporting to the embankment location to a lead of 1.00km and complete as per specifications,cost of all materials,labour complete as per specifications.Specification directions of engineer incharge.	Cum
9	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 complete as per specifications. specification directions of engineer in charge of the work	Sqm

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate Rs. P.	Amount	Qty (4+6)	Cost (5+8)	
4	5	6	7	8	9	10	11
450.00	590036.00	0.00	0.00	0.00	450.00	590036.00	
7680.00	4899840.00	4860.00	638.- 650.00	3100680.- 3159000.00	12540.00	8058840.00	
261.00	56115.00	4860.00	215.00	1044900.00	5121.00	1101015.00	
242.00	557212.00	3978.00	2302.50	9159345.00	4220.00	9716557.00	
60.00	403200.00	306.00	6720.00	2056320.00	366.00	2459520.00	
3240.00	1926912.00	59168.16	296.64	17551642.98	62408.16	19478554.98	
120.00	29346.00	429.00	244.55	104911.95	549.00	134257.95	
1498.57	204405.00	0.00	0.00	0.00	1498.57	204405.00	
4995.23	24277.00	0.00	0.00	0.00	4995.23	24277.00	

SI N	Description	Unit
10	Providing,laying, spreading and compacting Crushed stone aggregates of Granite /trap/basalt/ of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/vibratory roller 8- 10 tonnes in stages to proper grade and chamber, applying and brooming requisite type of screening/binding/ materials of fill up the interstices of coarse aggregayes, watering and compacting to the required density complete as per specifications. A, by manual means Crushable type such as moorum or gravel for grading II, MORTH Specifications No.405 complete as per specifications.	Cum
11	Providing,laying, spreading and comp[acting Crushed stone aggregates of Granite /trap/basalt/ of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/vibratory roller 8- 10 tonnes in stages to proper grade and chamber, applying and brooming requisite type of screening/binding/ materials of fill up the interstices of coarse aggregayes, watering and compacting to the required density complete as per specifications. A, by manual means Crushable type such as moorum or gravel for grading III, MORTH Specifications No.405 complete as per specifications.	Cum
12	De watering of accumulated water (3.5 Kltr/Hour Capacity) inculding hire charges of two labours and tractors	day
13	Providing 100mm thick shot creting of CC 1:2:2 with cost, of all materials, labours, machinary with cost, of all materials, labour, machinary etc complete as per design and drawing (market rate)	Cum
14	Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications. PWD SR 2015-16 item no 2.13, Page no 6 Rate:-(Basic rate-Rs.2,129/-+3% area weightage)=2192.87Rs/cum	Cum
15	Providing and laying filter media with granular material/ stone crushed aggregates satisfying the requirements laid down in clause 2500.4.2.2. of MORTH specifications to a thickness of not less than 600mm with similar size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and technicla specification. complete as per specifications MORTH specification No.710.14 of IRC: 78 & 2200 PWD SR 2015-16 item no 28.13, Page no 218 Rate:-(Basic rate-Rs.1201/-+3% area weightage)=1237.03Rs/cum	Cum
16	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305. Complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work. Specification directions of engineer incharge.	Cum
17	Providing and installing HDPE perforated pipes to carry leachate to the collection sump. To be assesec as per field requirenment	Rmtr
18	Suppling and fixing 2MM concrete rings at bottom of landfill above bottom liner system and extended till ground level. To be assessed as per field requirenment	Nos
19	Supply and Spraying of bio enzymes solution By setting of bioreactor at site to required ratio using leachates including cost to bio enzymes and air pumps	lts
20	using aromatic oils in spraying on garbage 3lts per day Rs 4200 per day	lts
21	Ten wheeler tipper for shifting of soil	days
22	Ex-Serviceman/ Night Watchman	month
23	Engaging heavy mazdoor labour	day
24	Water tanker for watering the road 5 times a day	day
25	Engaging TRACTOR OF 50 HP capacity including cost of crew and fuel charges etc complete . For cleaning of spilled garbage from garbage transporting vehicals and transportation of disel .	day
26	Drilling of borewell	

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate Rs. P.	Amount	Qty (4+6)	Cost (5+8)	
499.52	806525.00	0.00	0.00	0.00	499.52	806525.00	
749.28	1280999.00	0.00	0.00	0.00	749.28	1280999.00	
–	–	60.00	3454.00	207240.00	60.00	207240.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3105.06	965798.00	0.00	0.00	0.00	3105.06	965798.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	
–	–	304000.00	24.00	7296000.00	304000.00	7296000.00	
–	–	1140.00	1400.00	1596000.00	1140.00	1596000.00	
–	–	306.00	2016.00	616896.00	306.00	616896.00	
–	–	45.00	10150.85	456788.25	45.00	456788.25	
–	–	888.00	244.55	217160.40	888.00	217160.40	
–	–	765.00	485.60	371484.00	765.00	371484.00	
–	–	153.00	2512.00	384336.00	153.00	384336.00	
–	–						

SI N	Description	Unit
a	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, 1MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysic,a1 investigation of existing Ground Wate in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification & direction. (P.48, I. 9.4) PRED.SR 2012-13	
b	Sinking borewell of 160mm dia clear using super fast hydraulic rig of capacity 250PSIG and above CFM and above in all strats including over burden upto 20mtrs fixing of casing pipes,collars and caps with necessary cutting,throading and welding including transportation of rig and supporting vehicles,crew charges and cost of consumables etc complete including yield testing at the final depth with a minimal depth with a minimum working of compressor for one hour .P.46 PRED SR 2013-14	
	0-50m	Rmtr
	50-100m	Rmtr
	100-150m	Rmtr
	150-200m	Rmtr
	200-250m	Rmtr
	250-300m	Rmtr
c	Providing & fixing 175mm dia borewell cap.P.NO 85 PRED 12-13 SR	Each
d	Supplying & delivery at site brand new Texmo/Innoval/Lubi/Sabar/Atlanta/Calamal make suitable for vertical installation in 150mm dia borewell comprising of single stage or multi stage CF pump close coupled by means of stainless steel coupling to suitable HP speed totally enclosed and filled with pure drinking water,induction motor suitable for operation of 3PH,50Hz..380/440 volts AC supply fitted with required accessories such as suction,strainers and non return valve.The pump & motor shall form an integral unit with all the required fittings 12.50 HP 20 Stage.PWD SR 2013-14	Nos
e	Supplying of ISI marked galvanized MS tube,nominal bore screwed at both ends as per IS 554/1986 with latest amendments with random lengths of 4 to 7 mtrs.Conforming to IS 1239.	Rmtr
f	MS casing pipe Heavy duty collar "C" class 50mm dia P.NO 86 PRED 12-13 SR	Nos
	Grand Total	
	Add 9% KRIDL Charges	
	Add 1.5% PMC Charges	
	Net Total	

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore

26/10/16

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate Rs. P.	Amount	Qty (4+6)	Cost (5+8)	
–	–	3.00	1882.00	5646.00	3.00	5646.00	
–	–						
–	–	150.00	315.18	47277.00	150.00	47277.00	
–	–	150.00	412.00	61800.00	150.00	61800.00	
–	–	150.00	458.35	68752.50	150.00	68752.50	
–	–	150.00	484.10	72615.00	150.00	72615.00	
–	–	150.00	560.32	84048.00	150.00	84048.00	
–	–	150.00	600.49	90073.50	150.00	90073.50	
–	–	3.00	100.00	300.00	3.00	300.00	
–	–	3.00	60084.36	180253.08	3.00	180253.08	
–	–	54.00	1325.00	71550.00	54.00	71550.00	
–	–	54.00	150.00	8100.00	54.00	8100.00	
	11744665.00			**44912439.66**		**56657104.66**	
	1057020.00			4042120.00		5099139.00	
	176170.00			673687.00		849857.00	
	12977855.00			**49628246.66**		**62606100.66**	

Rs: 4.48,54,119-00

KRIDL Charges Add 9% Rs: 40,36,871-00

Add 1.5% PM Charges Rs 67281-00

Rs: 4,95,63,802-00

Original/Duplicate/Triplicate

Bill Type: Fourth & part Bill. **CONTRACT CERTIFICATE** (For other works)

Division: BBMP,Byatarayanapura Sub Division: BBMP,Byatarayanapura

Bill received No. BRNO: 29/2017-18 date: 30.6.2017, Divisional / Sub Divisional Cash Book Voucher No. ..... Dated.....

Schedule Docket No. Head of account Work code: 005-16-000037

Est.Cost:10.3495 Crores D.R No. :

Name of work(as per sanctioned estimate): **Providing internal lining works and development of approach roads to Bellahalli quarry sy. 13 yelahanka ward no.05**

Name of Contractor and Address: *Executive Engineer-4, KRIDL, Bangalore.-03*

Reference to Agreement No. **BBMP/EE/BTP/WO/324/2015-16** Date: **24.03.2016**

Certify that the measurements were taken by me on 2/1 and recorded of pages 263843 to 263857 of measurement book no. 2639/15-16

And that the work is satisfactorily executed.

Contractor

Assistant Executive Engineer Byatarayanapura Sub-division KRIDL, BBMP, Bangalore

Office-in-charge of work

Certified that measurement were taken by me on 2/1/17 and found correct. That work is satisfactorily executed.

Certified that the quantities of material shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal Agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

Sub Division Officer

1) Total value of work done or supplies made as per account within	Total Bill Amt:	10,3278,800-00
2) Deduct amount to be held in reserve being.....percent Rs.....	Minus 1st to 3rd part Bill	5,00,00,00B-00
3) " " Balance	4th & Final. Total Bill Rs:	4196136 9-00
4) Deduct Payment:		
a) Amount previous payment as in the Office cash Book Voucher No.....Dated..... S.D No..... Amount adjusted towards advance recovery of	2% IT	839227-00
	1% Cess	419614-00
b) Payments Now Made Cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque/Cash	0.1% CBF	41961-00
	5% FSD	2098068-00
5) Balance being unpaid value of work done held in reserve.	5% ASD	2098068-00
6) Deduct cash advance made on the office cash book voucher No..... Dated..... Less adjustment.	Adj	54,96,938-00
7) Net amount due to or from contractor unadjustment Items	Cheque:	364,64,431-00
8) Advance to Contractor for materials brought to site(as detailed) within	3rd & Part Bill Bal Amt:	11317423-00
9) Value of Government materials supplied.	Total Cheque Amt:	4,77,81,854-00

Contractor's Signature

Received Rs.....(in words)..... by cash and by adjustment of Payment as per memorandum (In final settlement of all demands)

Witness

1.

2.

Dated Signature of Contractor

Paid by me cheque no. Dated.....

Cash Rs..... Dated.....

Initials of Officer making payment

(For use in office)

Assistant Executive Engineer Byatarayanapura Sub-division KRIDL BBMP, Bangalore

(STAMP)

Audited & Admitted for Rs. 4196136 9-00

Rs. 4,77,81,854-00 by Cheque and Rs. 54,96,938-00 by Adjustment

Accts. Supdt. Project Division B.B.M.P. 30/6

Executive Engineer

Exe. Engineer Project Division B.B.M.P. 30/6

SI N	Description	Unit
1		
	2	3
1	KSRB 2.2.7: Benching hard rock 5 to 7.5 cm depth. for seating of foundation, including cost of all labour complete as per specifications. specification. No. KBS 2.1(a) / 2.3.1 complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Sqm
2	Providing, Supplying, Laying of 1.5 mm thick black HDPE texured Geomembrane including fabrication charges, all taxes and transportation etc.complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Sqm
3	Supply and laying of 200 gsm Non-woven Geotextile (Polypropylene) of thickness 2 mm at 2 kPa at the bottom and sides of landfill. The geotextile shall be made from virgin PP stable fibres and bonded by needlepunching technology inclusive of all taxes. complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Sqm
4	Engaging hydraulic excavator Hitachi on Hire basis including cost of fuel, crew charges etc Complete for Re-handling, heaping, spreading & forming of the MSW received at Dump yard & landfill site. 1 No of Hitachi per day of 8 hrs. complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Hrs
5	Engaging of JCB on Hire basis including cost of fuel, crew charges etc Complete for Re-handling, heaping, spreading & forming of the MSW received at Dump yard & landfill site. PWD SR 2015-16 page XXXVII item 23. For formation of road for movement of garbage carrying vehicles on to land fill, to assist the transporting vehicles that would struck in slush and any such unwaranted situations. Complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Day
6	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305. Complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work. Specification directions of engineer incharge.	Cum
7	Engaging Field Assistants for supervision of maintenance work of MSW handling as per the directions of Engineer in charge, For supervision and monitoring of the garbage disposal in the land fill, listing of vehicles, cleaning of spilled garbage etc. Complete as per specifications cost of all metarials, labour complete as per specifications. specification directions of engineer in charge of the work	Nos
Road Work		
8	KSRRB M300-14. Excavation for road work in all type of soil with hydraulic excavator of 0.9cum bucket capacity including cutting and loading in tippers,trimming bottom and side slopes,in accordance with requirements of lines,grades and cross sections and transporting to the embankment location to a lead of 1.00km and complete as per specifications,cost of all materials,labour complete as per specifications.Specification directions of engineer incharge.	Cum
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10	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 complete as per specifications. specification directions of engineer in charge of the work	Sqm

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate Rs. P.	Amount	Qty (4+6)	Cost (5+8)	
4	5	6	7	8	9	10	11
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12540.00	8000520.00	2492.00	638.00	1589896.00	15032.00	9590416.00	
5121.00	1101015.00	9911.00	215.00	2130865.00	15032.00	3231880.00	
4220.00	9716557.00	2380.00	2302.50	5479950.00	6600.00	15196507.00	
366.00	2459520.00	184.00	6720.00	1236480.00	550.00	3696000.00	
62408.16	18512756.98	37141.84	296.64	11017756.00	99550.00	29530513.00	
549.00	134257.95	431.00	244.55	105402.00	980.00	239660.00	
1498.57	204405.00	0.00	0.00	0.00	1498.57	204405.00	
3105.06	965798.00	0.00	0.00	0.00	3105.06	965798.00	
4995.23	24277.00	0.00	0.00	0.00	4995.23	24277.00	

SIN	Description	Unit
11	Providing,laying, spreading and compacting Crushed stone aggregates of Granite /trap/basalt/ of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/vibratory roller 8- 10 tonnes in stages to proper grade and chamber, applying and brooming requisite type of screening/binding/ materials of fill up the interstices of coarse aggregayes, watering and compacting to the required density complete as per specifications. A, by manual means Crushable type such as moorum or gravel for grading II, MORTH Specifications No.405 complete as per specifications.	Cum
12	Providing,laying, spreading and comp[acting Crushed stone aggregates of Granite /trap/basalt/ of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel/vibratory roller 8- 10 tonnes in stages to proper grade and chamber, applying and brooming requisite type of screening/binding/ materials of fill up the interstices of coarse aggregayes, watering and compacting to the required density complete as per specifications. A, by manual means Crushable type such as moorum or gravel for grading III, MORTH Specifications No.405 complete as per specifications.	Cum
13	De watering of accumulated water (3.5 Kltr/Hour Capacity) inculding hire charges of two labours and tractors	day
14	Supply and Spraying of bio enzymes solution By setting of bioreactor at site to required ratio using leachates including cost to bio enzymes and air pumps	lts
15	using aromatic oils in spraying on garbage 3lts per day Rs 4200 per day	lts
16	Ten wheeler tipper for shifting of soil	days
17	Ex-Serviceman/ Night Watchman	month
18	Engaging heavy mazdoor labour	day
19	Water tanker for watering the road 5 times a day	day
20	Engaging TRACTOR OF 50 HP capacity including cost of crew and fuel charges etc complete . For cleaning of spilled garbage from garbage transporting vehicals and transportation of disel .	day
	Drilling of borewell	
21	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, 1MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysic,a1 investigation of existing Ground Wate in the vicinity, its quality 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification & direction. (P.48, I. 9.4) PRED.SR 2012-13	
22	Sinking borewell of 160mm dia clear using super fast hydraulic rig of capacity 250PSIG and above CFM and above in all strats including over burden upto 20mtrs fixing of casing pipes,collars and caps with necessary cutting,throading and welding including transportation of rig and supporting vehicles,crew charges and cost of consumables etc complete including yield testing at the final depth with a minimal depth with a minimum working of compressor for one hour .P.46 PRED SR 2013-14	
	0-50m	Rmtr
	50-100m	Rmtr
	100-150m	Rmtr
	150-200m	Rmtr
	200-250m	Rmtr
	250-300m	Rmtr
23	Providing & fixing 175mm dia borewell cap.P.NO 85 PRED 12-13 SR	Each
24	Supplying & delivery at site brand new Texmo/Innoval/Lubi/Sabar/Atlanta/Calamal make suitable for vertical installation in 150mm dia borewell comprising of single stage or multi stage CF pump close coupled by means of stainless steel coupling to suitable HP speed totally enclosed and filled with pure drinking water,induction motor suitable for operation of 3PH,50Hz..380/440 volts AC supply fitted with required accessories such as suction,strainers and non return valve.The pump & motor shall form an integral unit with all the required fittings 12.50 HP 20 Stage.PWD SR 2013-14	Nos
25	Supplying of ISI marked galvanized MS tube,nominal bore screwed at both ends as per IS 554/1986 with latest amendments with random lengths of 4 to 7 mtrs.Conforming to IS 1239.	Rmtr
26	MS casing pipe Heavy duty collar "C" class 50mm dia P.NO 86 PRED 12-13 SR	Nos
	SPRAYING OF CHEMICAL TO CONTROL FLY AND MOSQUITO	
27	Supplying of premise chemical for spraying to control flymenace.	Ltr
28	Supplying of Sugar to mix with the chemical along with the water. For spraying to controle fly menace	Kg

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate Rs. P.	Amount	Qty (4+6)	Cost (5+8)	
499.52	806525.00	0.00	0.00	0.00	499.52	806525.00	
749.28	1280999.00	0.00	0.00	0.00	749.28	1280999.00	
60.00	207240.00	0.00	3454.00	0.00	60.00	207240.00	
304000.00	7296000.00	304000.00	24.00	7296000.00	608000.00	14592000.00	
1140.00	1596000.00	1140.00	1400.00	1596000.00	2280.00	3192000.00	
306.00	616896.00	244.00	2016.00	491904.00	550.00	1108800.00	
45.00	456788.25	27.00	10150.85	274073.00	72.00	730862.00	
888.00	217160.40	1037.00	244.55	253599.00	1925.00	470760.00	
765.00	371484.00	610.00	485.60	296216.00	1375.00	667700.00	
153.00	384336.00	122.00	2512.00	306464.00	275.00	690800.00	
3.00	5646.00	0.00	1882.00	0.00	3.00	5646.00	
150.00	47277.00	0.00	315.18	0.00	150.00	47277.00	
150.00	61800.00	0.00	412.00	0.00	150.00	61800.00	
150.00	68752.50	0.00	458.35	0.00	150.00	68753.00	
150.00	72615.00	0.00	484.10	0.00	150.00	72615.00	
150.00	84048.00	0.00	560.32	0.00	150.00	84048.00	
150.00	90073.50	0.00	600.49	0.00	150.00	90074.00	
3.00	300.00	0.00	100.00	0.00	3.00	300.00	
3.00	180253.08	0.00	60084.36	0.00	3.00	180254.00	
54.00	71550.00	0.00	1325.00	0.00	54.00	71550.00	
54.00	8100.00	0.00	150.00	0.00	54.00	8100.00	
0.00	0.00	880.00	3130.00	2754400.00	880.00	2754400.00	
0.00	0.00	5500.00	40.00	220000.00	5500.00	220000.00	

Sl N	Description	Unit
29	Supplying of Baytex chemical for spraying to control Mosquito menace.	Ltr
30	Spraying of premise chemical solution prepared by mixing the Chemical with sugar and water @ the ratio 5ml of chemical for 1 litre of water to control fly menace. Spraying Labours - 3 Nos	Nos
31	Spraying of Baytex chemical solution prepared by mixing with water @ the ratio 10ml of chemical for 1 litre of water to control mosquito menace Spraying Labour - 3 Nos	Nos
32	Procuring of spraying machines to spray above solutions.	Nos
	Grand Total	
	Add 9% KRIDL Charges	
	Add 1.5% PMC Charges	
	Net Total	

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate Rs. P.	Amount	Qty (4+6)	Cost (5+8)	
0.00	0.00	880.00	1915.00	1685200.00	880.00	1685200.00	
0.00	0.00	1100.00	244.55	269005.00	1100.00	269005.00	
0.00	0.00	1100.00	244.55	269005.00	1100.00	269005.00	
0.00	0.00	6.00	2250.00	13500.00	6.00	13500.00	
	55632986.66			**37974090.00**		**93607080.00**	
	5006969.00			3417668.00		8424637.00	
	834495.00			569611.00		1404106.00	
	61474451.00			**41961369.00**		**103435823.00**	

3rd & Part Bill Bar1/13174223-6